

NEW

MAC WORLD EXPO
SPECIAL OFFER

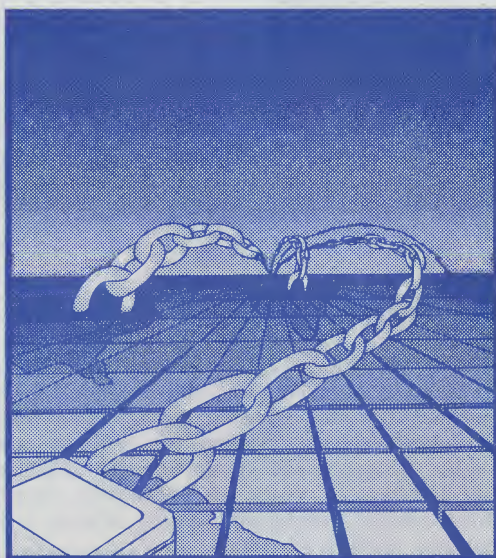
79.95

XLink™

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***XLink provides simple
XCMD installation***

XLink designates a folder in which you place your HyperCard stacks that contain the XCMDs and XFCNs you wish to use with your application.



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***XLink comes with externals so you
can start using it right away***

XLink contains many externals for instant productivity including: screen capture, clipboard utilities and more.

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***XLink provides messaging
and communications utilities***

HyperCard externals have been written for sending and receiving mail, communicating over an Appletalk network, posting AppleLink messages, performing modem control functions and providing mainframe communications utilities.

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XLink provides multimedia tools

XLink gives you access to a growing library of multimedia tools written for HyperCard. These include utilities from Farallon and MacroMind.

VERSION 2.2

XLink is an easy to use, useful and unique utility for accessing HyperCard™ externals on the Macintosh

The HyperCard external system (XCMD) was defined by Apple to give users a means of expanding the HyperCard language. Since the release of HyperCard a large number of commercial and public domain HyperCard externals have been developed. These externals provide access to a large variety of powerful tools ranging from desktop management to multimedia and animation. Now by using XLink, your application can access these same easy to use and widely available externals.

Act Now

Order XLink today for your application and introduce yourself to a whole new world of extendability.

Sample Input Screens

Some available HyperCard externals

GetScrap, SetScrap, Batch, CloseResFork, GetPicture, DisplayPict, ResDelete, ResCopyQuick, ATPSendRequest, NBPRRegisterName, NewFolder, CopyFile, Shutdown, Restart, ResDelete, Connect3270Ps, Open3270Driver, Receive3270File, Send3270File, Send3270Key, MTPlay, PlayMovie, Talk, PostEvent, ResCopy, sendSPort, XModem, CopyStruct, UnmountVolume, EjectDisk, PrintContainer, GetVideoMode, SetVideoMode, chooserName, StringWidth, FontHeight, NewFileName, ResNameList, rInfo, UnScrunch, Scrunch, DisplayColors, FileName, Dialoger, StringWidth, MoveFile, RenameFile, DeleteFile, GetVolNames, DeleteFolder, MoveFolder, RenameFolder, GetFileInfo, FolderName, NewFileName, NewFileName, Search3270Fld, the3270_OIA, PopUpMenu, rcvChars, SPortBufferSize, ApplicationList, ApplMemory, CDDriveList, DiskSpaceAvail, documentCreator, FileCreationDate, FileExists, FileModDate, FileSize, FileType, HFSCopy, HFSRename, MenuBarShowing, MonitorConfig, MonitorCount, NumToBinary, NumToHex, OpenFiles, SetDefaultDir, SyQuestDriveList, sysEnvironment, TotalRAM, VolumesLocked, VolumeList, FileCreator, FolderContents, INITList, MFIsRunning, SCSIInfo, SCSINumber, SCSIName, DragRect, FolderPath, FilePath, VolumePath, DiskIsRemovable, wavesHPopUp, AUXIsRunning, ApplSize, FileVersion *and many many more.*



CEL Software Inc, Box 8339, Stn. F,
Edmonton, Alberta, Canada, T6H 4W6,
(403) 437-2798, Fax: (403) 426-4766,
AppleLink: CDA0575

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"The things that QuickKeys 2 users will be able to create with this extension will be "mind-blowing"

John Foster - Product Manager for QuickKeys 2.

"So EASY and yet so powerful."

First Name _____ M.I. _____ Last Name _____

Company _____

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Description	Price*	Quantity	Total
XLink for QuickKeys 2	\$79.95		
XLink for Tempo II Plus	\$79.95		
XLink for Excel	\$79.95		
XLink for 4th Dimension	\$79.95		
Sub Total			
For 4-6 weeks delivery add \$10 plus \$2 per additional product		Shipping	
All prices in US\$.		Sales Tax	
Canadian residents add 7% Sales Tax		TOTAL	

Payment method:

☐ American Express _____ Credit Card Number
☐ VISA _____
☐ MasterCard _____ Expiry Date
☐ Cheque _____
☐ Money Order _____ Name on Credit Card

*Regular Price \$149.95, Offer Expires March 1, 1991

XLink lets users add XCMDs to key apps, macros

By Steve Rosenthal

Edmonton, Alberta — A new line of software tools introduced last month by a small developer here promises advanced Mac users a way to customize their entire software environment with HyperCard-format external commands (XCMDs) and external functions (XFCNs).

Cel Software Inc.'s XLink series will make it possible to call XCMDs and XFCNs directly from the scripting languages of several popular applications or from other programs via macros created with CE Software Inc.'s QuicKeys 2 or Tempo II Plus, a forthcoming upgrade to Affinity Microsystems Ltd.'s macro utility.

XLink consists of a Startup document (INIT) and a specific add-on module for each supported program. One version is currently bundled with Prograph, the graphical development environment from TGS Systems Inc. of Halifax, Nova Scotia.

XLink packages for Microsoft Excel and ACIUS Inc.'s 4th Dimension, as well as for QuicKeys 2 and Tempo II Plus, will be available this month, according to Cel. Versions for Informix Software Inc.'s Wingz and Rag-Time USA's RagTime3 are due next month.

The XLink packages will list for \$149.95 each. Discounts will be available, however, for buyers of multiple modules; discount coupons also will be included with some of the supported programs.

XLink will permit users to accomplish tasks not supported by their standard applications by turning to the extensive libraries of HyperCard XCMDs and XFCNs already in commercial, shareware and free circulation. New externals for use with XLink can be generated using standard development tools designed originally for HyperCard, including Compile-It! from Heizer Software of Pleasant Hill, Calif., and HyperBasic from Teknosys Inc. of Tampa, Fla.

HyperCard itself is not required to use XLink.

Next month, Cel said, it also will ship an XLink XCMD Tester for Symantec Corp.'s Think C. The \$149.95 module will allow C developers to run their XCMDs without leaving the development environment, with full source-level debugging.

XLink can call XCMD resources in stacks

or other programs. Because it has an internal structure similar to HyperCard 1.2.x, it can run externals that make "callbacks" to HyperCard. As is the case with other applications supporting XCMDs, however, callbacks that rely on the HyperTalk language or features present only in HyperCard will not work, but the program does allow users to

provide their own external handlers for HyperTalk callbacks.

Routines can extend over several applications, giving users the ability to do much of what Apple promises for its forthcoming AppleScript control language.

Early XLink users say the product performs as promised. "It's worked out very well

so far," said Yvan Filiatrault, an independent 4D developer in Montreal. Filiatrault said XLink has allowed him to make use of his existing XCMD libraries to cut development time significantly.

CE will offer XLink at \$79.95 to QuicKeys users, while a similar deal is expected from Affinity.

Cel Software Inc. is at 10123 99th St., Suite 2260, Sunlife Place, Edmonton, Alberta, Canada T5J 3H1. Phone (403) 429-1903; fax (403) 426-4766. □

